PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 265.00410201		see Form PCT/ISA/220 as well as, where applicable, item 5 below.					
International application No. PCT/US04/40120	International filing date (day/month/year) 01 December 2004 (01.12.2004)	(Earliest) Priority Date (day/month/year) 01 December 2003 (01.12.2003)					
Applicant BOARD OF REGENT, THE UNIVERSITY OF TEXAS SYSTEM							
This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau. This international search report consists of a total of							
5. With regard to the abstract, the text is approved as submitted the text has been established		y as it appears in Box No. IV. The applicant					
the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority. 6. With regard to the drawings,							
a. the figure of the drawings to be passuggested by the	oublished with the abstract is Figure No applicant.	_					
as selected by this A	authority, because the applicant failed to sug	i					
_	authority, because this figure better character	izes the invention.					
b. none of the figures is to be published with the abstract.							

Form PCT/ISA/210 (first sheet) (January 2004)

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US04/40120

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A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : C07H 21/02, 21/04; C12P 19/34, 10/0221/00; C12N 15/09, 15/82, 15/85, 15/00; C12Q 1/70, 1/68, 33/48 US CL : 536/23.1, 23.72; 435440, 441, 442455, 91.1, 91.4, 91.4291.51, 69.1,69.270.1, 455, 5, 6, 94 According to International Patent Classification (IPC) or to both national classification and IPC						
Minimum documentation searched (classification system followed by classification symbols) U.S.: 536/23.1, 23.72; 435440, 441, 442455, 91.1, 91.4, 91.4291.51, 69.1,69.270.1, 455, 5, 6, 94						
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched						
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Please See Continuation Sheet						
C. DOC	UMENTS CONSIDERED TO BE RELEVANT					
Category *	Citation of document, with indication, where a	ppropriate,	of the relevant passages	Relevant to claim No.		
X,P	US6,689,559B2 (WIMMER et al) 10 February 2004 columns 11-13).	4 (10.02.200	4), Fig. 2-4, Claims 1-12,	1-36		
Х	US 20020098202A1 (WIMMER et al) 24 October 2002 (24.10.2002), see Fig. 1-4, claims 1- 52)			1-36		
A	IKEDA. M. et al. Selection Subgenomic and Genome-Length Dicsitronic RNAs Derived from an Infectiou Molecular Clone of the HCV-N Strain of hepatitis C virus Replicate Effeciently in Cultureed Huh7 Cells. J. Virol. March 2002, Vol. 76. No. 6, pages 2997-3006.					
Α	LOHMANN. V. et al. Mutations in Hepatitis C Virus RNAs conferring Cell Culture Adaptation. J. Virol. February 2001, Vol. 75. No. 3, pages 1437-1449.					
X .	BUKH. J. et al. Mutations that permit effecient replication of hepatitis C virus RNA in Huh-7 cells prevent productive replication in chimpazees, PNAS, October 2002, Voil. 99. No. 22, pages 14416-14421, see page 14416, 2nd column, last paragraphand 1st column, 2nd paragraph.					
A	KRIEGER. N. et al. Enhancement of Hepatitits C V Adaptive Mutations. J. Virol. May 2001, Vol. 75. N					
Further	documents are listed in the continuation of Box C.		See patent family annex.			
• S	pecial categories of cited documents:	"T"	later document published after the inter			
	particular relevance		ntion			
	plication or patent published on or after the international filing date	"X"	document of particular relevance; the c considered novel or cannot be consider when the document is taken alone			
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)			"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination			
"O" document	referring to an oral disclosure, use, exhibition or other means		being obvious to a person skilled in the	art		
	published prior to the international filing date but later than the te claimed	"&"	document member of the same patent f	amily		
	Date of the actual completion of the international search Date of mailing of the international search Date of mailing of the international search			report		
	17 August 2005 (17.08.2005) Name and mailing address of the ISA/US Authorized officer					
Mail Com	Iting address of the ISA/US Stop PCT, Attn: ISA/US missioner for Patents Box 1450	Bao Qun I	i Kulshey	religion		
Alex	andria, Virginia 22313-1450 (703) 305-3230	Telephone	No.(571/272-1600	Dar		

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INTERNATIONAL SEARCH REPORT	International application No. PCT/US04/40120		
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Continuation of B. FIELDS SEARCHED Item 3: WEST, MEDLINE, CAPLUS Search terms: HCV replicon, in vitro, synthesis, construct, expression system			
Search terms: HCV replicon, in vitro, synthesis, construct, expression system			
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